

Rod Button

Piston Rod

Return Spring



Industrial Shock Absorbers

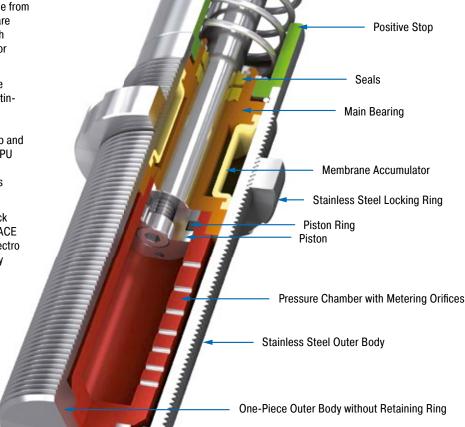
Optimum corrosion protection

The latest damper technology in stainless steel: The self-compensating industrial shock absorbers MC33 to MC64 from the tried-and-tested and popular MAGNUM series is also available with all outer components made from stainless steel (material 1.4404). They are filled in the factory with special oil, which meets the permit conditions (NSF-H1) for

the food industry.

Just like the standard product family, the MAGNUM stainless steel models are distinguished by their robust, modern sealing technology, high energy absorption in a compact design, integrated positive stop and a wide damping range. Equipped with a PU head, they are available in thread sizes M33x1.5 to M64x2 with damping strokes up to 100 mm.

These self-compensating industrial shock absorbers made of stainless steel from ACE are mainly used in the food, medical, electro and offshore industries, but also in many other markets.



Technical Data

Energy capacity: 155 Nm/Cycle to

5,100 Nm/Cycle

Impact velocity range: 0.15 m/s to 5 m/s.

Other speeds on request.

Operating temperature range: -12 °C to +66 °C. Other temperatures on request.

Mounting: In any position **Positive stop:** Integrated

Material: Outer body, Main bearing, Accessories, Locking ring: Stainless steel (1.4404, AISI 316L); Piston rod: Hard chrome plated steel; Rod end button: Stainless steel (1.4404, AISI 316L) with elastomer insert; Return spring: Stainless steel

Damping medium: Special oil NSF-H1

approved

Application field: Linear slides, Swivel units, Turntables, Food industry

Note: Impact button (PP) for noise reduction included. For emergency use only applications and for continous use (with additional cooling) it is sometimes possible to exceed the published max. capacity ratings. In this case, please consult ACE.

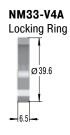
Safety instructions: External materials in the surrounding area can attack the seal components and lead to a shorter service life. Please contact ACE for appropriate solution suggestions. Do not paint the shock absorbers due to heat emission.

On request: Special oils, other special options and special accessories are available on request.



Self-Compensating, Stainless Steel







The calculation and selection of the most suitable damper should be carried out or be approved by ACE.

Model Type Prefix

Standard Models

MC: Self-Contained with return spring, self-compensating

Special Models

MCA: Air/Oil return without return spring.
Use only with external air/oil tank.

MCS: Air/Oil return with return spring.
Use only with external air/oil tank.
MCN: Self-Contained without return spring

Ordering Example

Self-Compensating
Thread Size M33
Stroke 25 mm
EU Compliant
Metric Thread
Effective Weight Range Version
Stainless Steel 1.4404/AISI 316L

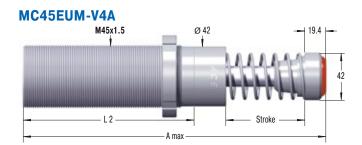
Performance an	d Dimensio	ns											
	Max. Energy Capacity		Effective Weight										
									Return force	Return force		² Side Load	
	W ₃	W_{4}	1 me min.	1 me max.	Hardness	Stroke	A max.	L2	min.	max.	Return time	Angle max.	Weight
TYPES	Nm/cycle	Nm/h	kg	kg		mm	mm	mm	N	N	s	•	kg
MC3325EUM-0-V4A	155	75,000	3	11	-0	23.2	151.2	83	45	90	0.03	4	0.45
MC3325EUM-1-V4A	155	75,000	9	40	-1	23.2	151.2	83	45	90	0.03	4	0.45
MC3325EUM-2-V4A	155	75,000	30	120	-2	23.2	151.2	83	45	90	0.03	4	0.45
MC3325EUM-3-V4A	155	75,000	100	420	-3	23.2	151.2	83	45	90	0.03	4	0.45
MC3325EUM-4-V4A	155	75,000	350	1,420	-4	23.2	151.2	83	45	90	0.03	4	0.45
MC3350EUM-0-V4A	310	85,000	5	22	-0	48.6	202.2	108	45	135	0.06	3	0.54
MC3350EUM-1-V4A	310	85,000	18	70	-1	48.6	202.2	108	45	135	0.06	3	0.54
MC3350EUM-2-V4A	310	85,000	60	250	-2	48.6	202.2	108	45	135	0.06	3	0.54
MC3350EUM-3-V4A	310	85,000	210	840	-3	48.6	202.2	108	45	135	0.06	3	0.54
MC3350EUM-4-V4A	310	85.000	710	2.830	-4	48.6	202.2	108	45	135	0.06	3	0.54

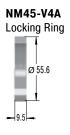
¹ For emergency use only applications it is sometimes possible to exceed the above ratings. Please consult ACE for further details.

² For applications with higher side load angles consider using the side load adaptor (BV) pages 74 to 77.

Self-Compensating, Stainless Steel









The calculation and selection of the most suitable damper should be carried out or be approved by ACE.

Model Type Prefix

Standard Models

MC: Self-Contained with return spring, self-compensating

Special Models

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Use only with external air/oil tank.
MCS: Air/Oil return with return spring.
Use only with external air/oil tank.
MCN: Self-Contained without return spring

Ordering Example	MC4550EUM-1-V4A							
Self-Compensating								
Thread Size M45								
Stroke 50 mm								
EU Compliant								
Metric Thread								
Effective Weight Range Version								
Stainless Steel 1.4404/AISI 316L								

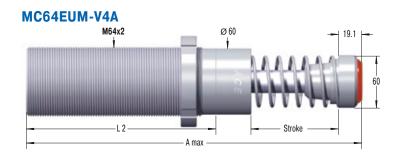
Performance and Dimensions													
	Max. Energy Capacity		Effective Weight										
TYPES	W ₃	W₄ Nm/h	¹ me min.	¹ me max. kg	Hardness	Stroke mm	A max.	L2 mm	Return force min.	Return force max. N	Return time	² Side Load Angle max.	Weight kg
MC4525EUM-0-V4A	340	107,000	7	27	-0	23.1	164.5	95	70	100	0.03	4	1.13
MC4525EUM-1-V4A	340	107,000	20	90	-1	23.1	164.5	95	70	100	0.03	4	1.13
MC4525EUM-2-V4A	340	107,000	80	310	-2	23.1	164.5	95	70	100	0.03	4	1.13
MC4525EUM-3-V4A	340	107,000	260	1,050	-3	23.1	164.5	95	70	100	0.03	4	1.13
MC4525EUM-4-V4A	340	107,000	890	3,540	-4	23.1	164.5	95	70	100	0.03	4	1.13
MC4550EUM-0-V4A	680	112,000	13	54	-0	48.5	214.4	120	70	145	0.08	3	1.36
MC4550EUM-1-V4A	680	112,000	45	180	-1	48.5	214.4	120	70	145	0.08	3	1.36
MC4550EUM-2-V4A	680	112,000	150	620	-2	48.5	214.4	120	70	145	0.08	3	1.36
MC4550EUM-3-V4A	680	112,000	520	2,090	-3	48.5	214.4	120	70	145	0.08	3	1.36
MC4550EUM-4-V4A	680	112,000	1,800	7,100	-4	48.5	214.4	120	70	145	0.08	3	1.36
MC4575EUM-0-V4A	1,020	146,000	20	80	-0	73.9	265.4	145	50	180	0.11	2	1.59
MC4575EUM-1-V4A	1,020	146,000	70	270	-1	73.9	265.4	145	50	180	0.11	2	1.59
MC4575EUM-2-V4A	1,020	146,000	230	930	-2	73.9	265.4	145	50	180	0.11	2	1.59
MC4575EUM-3-V4A	1,020	146,000	790	3,140	-3	73.9	265.4	145	50	180	0.11	2	1.59
MC4575EUM-4-V4A	1,020	146,000	2,650	10,600	-4	73.9	265.4	145	50	180	0.11	2	1.59

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² For applications with higher side load angles consider using the side load adaptor (BV) pages 74 to 77.



Self-Compensating, Stainless Steel







The calculation and selection of the most suitable damper should be carried out or be approved by ACE.

Model Type Prefix

Standard Models

MC: Self-Contained with return spring, self-compensating

Special Models

MCA: Air/Oil return without return spring. Use only with external air/oil tank. MCS: Air/Oil return with return spring. Use only with external air/oil tank. MCN: Self-Contained without return spring

Ordering Example	MC6450EUM-3-V4A
Self-Compensating	

Performance and Dimensions													
	Max. Energy Capacity		Effective Weight										
									Return force	Return force		² Side Load	
	W ₃	W_4	1 me min.	1 me max.	Hardness	Stroke	A max.	L2	min.	max.	Return time	Angle max.	Weight
TYPES	Nm/cycle	Nm/h	kg	kg		mm	mm	mm	N	N	s	•	kg
MC6450EUM-0-V4A	1,700	146,000	35	140	-0	48.6	244.1	140	90	155	0.12	4	2.9
MC6450EUM-1-V4A	1,700	146,000	140	540	-1	48.6	244.1	140	90	155	0.12	4	2.9
MC6450EUM-2-V4A	1,700	146,000	460	1,850	-2	48.6	244.1	140	90	155	0.12	4	2.9
MC6450EUM-3-V4A	1,700	146,000	1,600	6,300	-3	48.6	244.1	140	90	155	0.12	4	2.9
MC6450EUM-4-V4A	1,700	146,000	5,300	21,200	-4	48.6	244.1	140	90	155	0.12	4	2.9
MC64100EUM-0-V4A	3,400	192,000	70	280	-0	99.4	345.1	191	105	270	0.34	3	3.7
MC64100EUM-1-V4A	3,400	192,000	270	11,000	-1	99.4	345.1	191	105	270	0.34	3	3.7
MC64100EUM-2-V4A	3,400	192,000	930	3,700	-2	99.4	345.1	191	105	270	0.34	3	3.7
MC64100EUM-3-V4A	3,400	192,000	3,150	12,600	-3	99.4	345.1	191	105	270	0.34	3	3.7
MC64100EUM-4-V4A	3,400	192,000	10,600	42,500	-4	99.4	345.1	191	105	270	0.34	3	3.7

¹ For emergency use only applications it is sometimes possible to exceed the above ratings. Please consult ACE for further details. ² For applications with higher side load angles consider using the side load adaptor (BV) pages 74 to 77.